

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P957126

Luminaire Tested: **GALN-SB9C-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45270 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

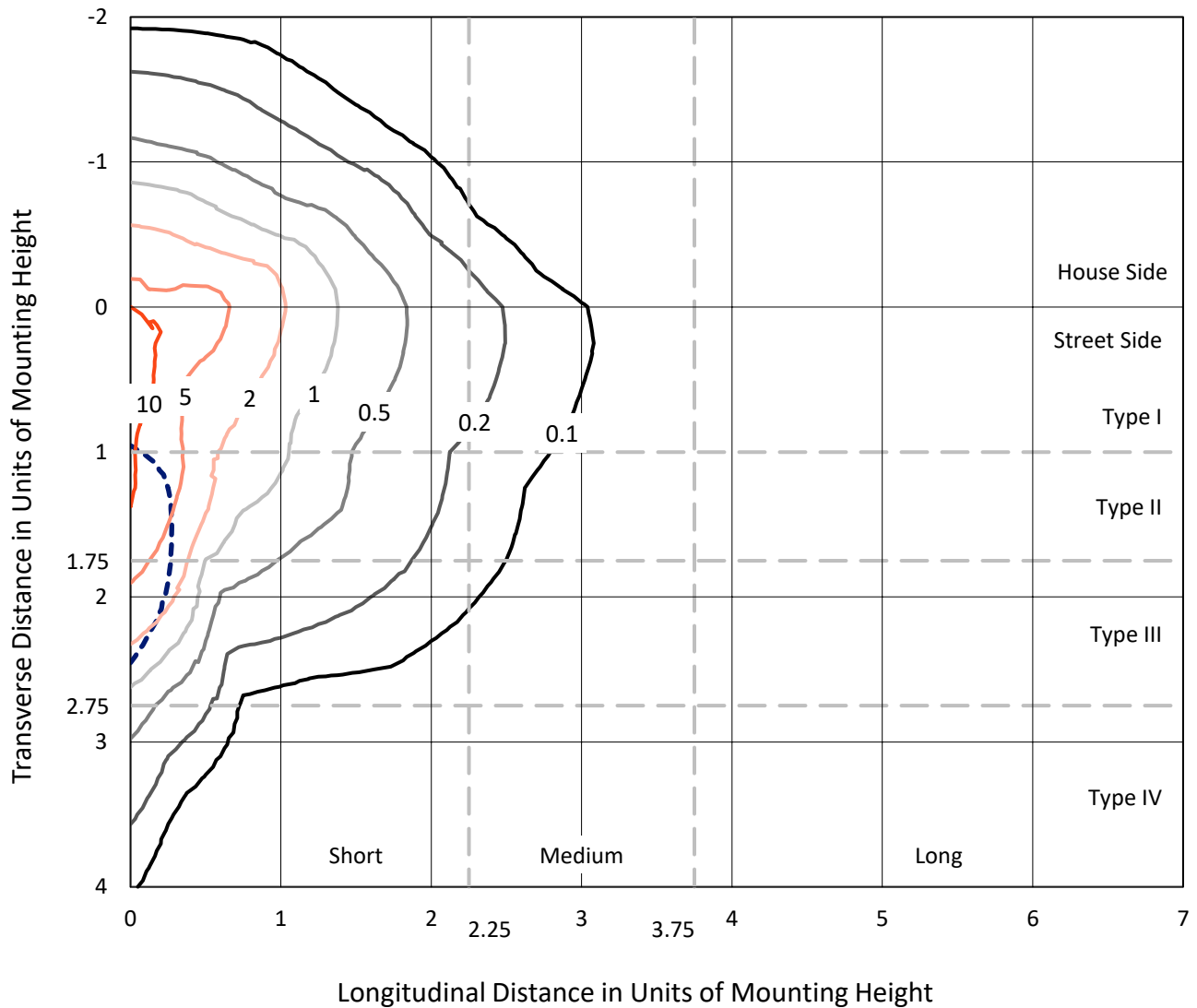
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957126
 CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

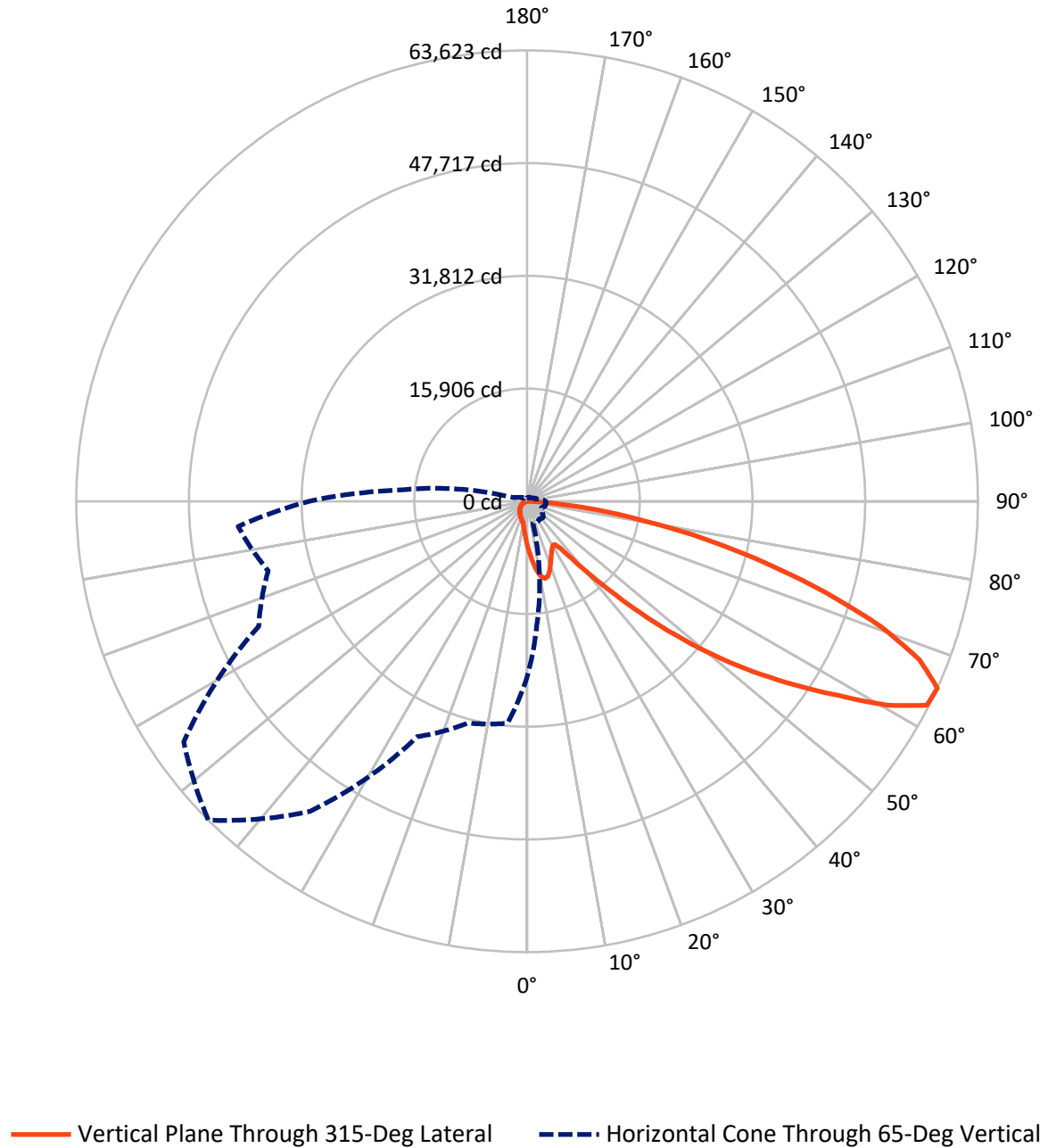
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

REPORT NUMBER: P957126
CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P957126
 CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6339.7	0.0	6339.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	38930.3	0.0	38930.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	45270.0	0.0	45270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.2	1.4
10°-20°	1850.0	4.1
20°-30°	2725.5	6.0
30°-40°	3501.5	7.7
40°-50°	5663.0	12.5
50°-60°	9930.5	21.9
60°-70°	12425.8	27.4
70°-80°	7261.1	16.0
80°-90°	1295.5	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45270.0	100.0
0°-180°	45270.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957126

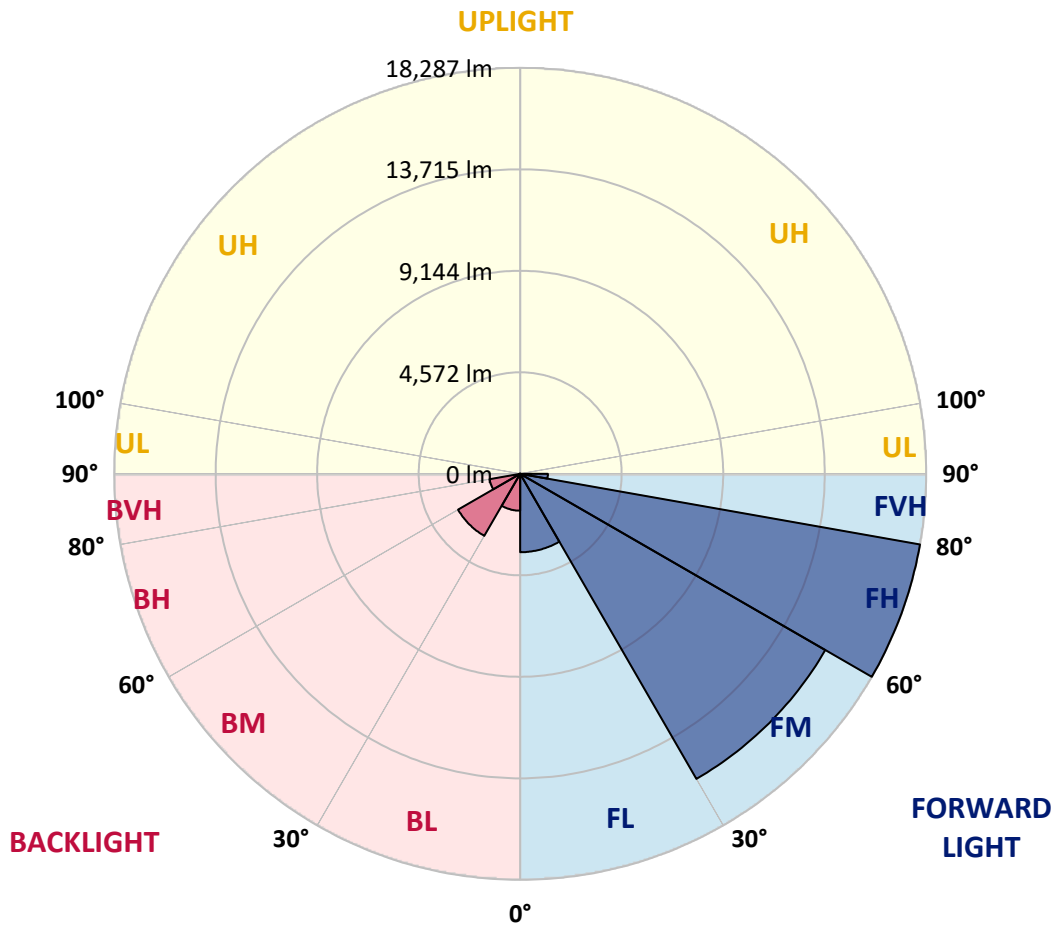
CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3530.9	7.8			
FM (30°-60°)	15866.6	35.0			
FH (60°-80°)	18287.0	40.4			G5
FVH (80°-90°)	1245.7	2.8			G5
BL (0°-30°)	1661.8	3.7	B3/2500		
BM (30°-60°)	3228.3	7.1	B3/5000		
BH (60°-80°)	1399.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	49.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P957126
 CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
2.5°	7082.4	6960.8	6889.1	6711.3	6533.5	6390.1	6196.7	6068.9	5916.0	5769.5
5°	7893.3	7696.8	7459.8	7135.4	6839.2	6536.6	6243.5	5953.5	5647.8	5367.2
7.5°	8579.4	8295.6	7877.7	7447.3	7069.9	6705.1	6362.0	5978.4	5607.3	5167.6
10°	9103.3	8741.5	8192.6	7628.2	7194.7	6826.7	6493.0	6168.7	5794.4	5264.2
12.5°	9421.4	9034.7	8382.9	7721.7	7225.9	6814.2	6555.4	6411.9	6265.3	5738.3
15°	9655.3	9237.4	8517.0	7787.2	7154.1	6648.9	6458.7	6602.1	6770.5	6433.7
17.5°	9898.5	9458.8	8691.6	7815.3	6960.8	6327.7	6246.6	6617.7	7007.6	6992.0
20°	10129.3	9692.7	8844.4	7796.6	6648.9	5937.9	6009.6	6483.6	6935.8	7126.1
22.5°	10394.4	9932.8	8991.0	7724.8	6243.5	5573.0	5797.5	6271.6	6667.6	6892.2
25°	10718.7	10235.3	9196.8	7618.8	5806.9	5270.5	5582.3	6025.2	6346.4	6502.3
27.5°	11068.0	10597.1	9471.3	7562.7	5454.5	5055.3	5339.1	5732.0	6019.0	6128.1
30°	11501.5	11018.1	9795.6	7500.3	5223.7	4930.6	5086.5	5392.1	5672.8	5781.9
32.5°	11975.5	11485.9	10107.5	7350.6	5083.4	4837.0	4840.1	5033.5	5289.2	5420.2
35°	12568.1	12047.3	10441.2	7023.2	4971.1	4727.8	4600.0	4693.5	4905.6	5061.5
37.5°	13413.2	12783.3	10849.7	6555.4	4805.8	4559.4	4347.4	4369.2	4531.4	4702.9
40°	14579.6	13771.9	11330.0	6068.9	4568.8	4322.4	4069.8	4060.5	4179.0	4347.4
42.5°	16157.6	15078.6	11906.9	5604.2	4341.1	4035.5	3776.7	3761.1	3854.6	4001.2
45°	18240.9	16750.2	12614.9	5205.0	4163.4	3754.8	3499.1	3492.9	3570.8	3698.7
47.5°	20907.3	19073.5	13322.8	4933.7	4069.8	3533.4	3271.4	3283.9	3352.5	3467.9
50°	24359.6	22101.7	13538.0	4796.5	4069.8	3414.9	3068.7	3131.1	3187.2	3274.6
52.5°	28498.0	25008.3	12826.9	4671.7	4094.8	3430.5	2897.2	3031.3	3071.9	3146.7
55°	32334.0	26433.5	11027.5	4500.2	4101.0	3527.2	2750.6	2950.2	3025.1	3053.1
57.5°	34560.7	25943.9	8916.2	4210.2	4076.0	3592.7	2657.1	2850.4	2993.9	3012.6
60°	34136.5	24225.5	6564.7	3988.7	3892.1	3567.7	2629.0	2697.6	2925.3	2953.3
62.5°	30868.2	21343.9	4556.3	3817.2	3486.6	3458.6	2619.6	2457.5	2775.6	2844.2
65°	24811.8	16803.2	3218.4	3287.0	3056.3	3221.5	2569.8	2208.0	2594.7	2688.3
67.5°	18000.7	11370.5	2323.4	2663.3	2769.3	2838.0	2457.5	2027.1	2388.9	2513.6
70°	11551.4	6140.6	1631.0	1758.9	2332.7	2410.7	2264.1	1864.9	2179.9	2323.4
72.5°	8211.4	3627.0	1172.6	1231.9	1874.3	2008.4	1992.8	1684.1	1936.7	2111.3
75°	5666.6	1999.0	792.1	879.5	1359.7	1631.0	1537.5	1447.0	1640.4	1818.2
77.5°	3552.1	895.0	474.0	611.3	891.9	1281.8	1054.1	1119.6	1278.6	1443.9
80°	1977.2	346.2	265.1	405.4	486.5	932.5	583.2	720.4	941.8	1060.3
82.5°	430.4	43.7	118.5	174.6	190.2	542.6	308.7	417.9	592.5	583.2
85°	0.0	0.0	21.8	24.9	12.5	233.9	112.3	137.2	193.4	180.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957126
 CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6268.4	0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
5638.5	2.5°	5613.5	5460.7	5348.5	5292.3	5245.5	5289.2	5314.1	5314.1	5420.2	5482.6
5195.6	5°	5086.5	4812.0	4603.1	4462.8	4378.6	4406.6	4437.8	4472.1	4606.2	4696.7
4933.7	7.5°	4721.6	4300.6	3982.5	3786.0	3683.1	3698.7	3720.5	3748.6	3879.6	3970.0
4971.1	10°	4653.0	4048.0	3598.9	3340.1	3215.3	3193.5	3181.0	3171.6	3249.6	3318.2
5395.2	12.5°	4933.7	4060.5	3433.6	3118.6	2965.8	2900.3	2825.5	2766.2	2778.7	2822.4
6037.7	15°	5435.8	4219.5	3380.6	3003.2	2813.0	2703.9	2616.5	2544.8	2529.2	2544.8
6599.0	17.5°	6009.6	4434.7	3374.4	2903.4	2666.4	2554.2	2482.4	2416.9	2395.1	2398.2
6914.0	20°	6390.1	4606.2	3355.6	2791.2	2526.1	2426.3	2363.9	2298.4	2276.6	2282.8
6826.7	22.5°	6427.5	4696.7	3327.6	2666.4	2385.8	2301.5	2239.2	2179.9	2176.8	2176.8
6499.2	25°	6224.8	4696.7	3268.3	2554.2	2251.7	2176.8	2120.7	2048.9	2061.4	2067.7
6128.1	27.5°	5909.8	4584.4	3156.1	2463.7	2136.3	2058.3	2002.2	1936.7	1952.3	1961.6
5781.9	30°	5597.9	4440.9	3022.0	2360.8	2027.1	1936.7	1896.1	1840.0	1846.2	1858.7
5438.9	32.5°	5307.9	4288.1	2862.9	2276.6	1918.0	1827.5	1796.3	1734.0	1743.3	1755.8
5102.1	35°	5021.0	4119.7	2675.8	2176.8	1818.2	1727.7	1702.8	1631.0	1637.3	1656.0
4765.3	37.5°	4712.3	3941.9	2523.0	2077.0	1721.5	1627.9	1603.0	1528.1	1534.4	1556.2
4416.0	40°	4387.9	3767.3	2373.3	1971.0	1618.6	1525.0	1503.2	1422.1	1428.3	1453.3
4072.9	42.5°	4060.5	3577.1	2257.9	1833.8	1512.5	1412.7	1390.9	1316.1	1325.4	1353.5
3773.5	45°	3757.9	3349.4	2183.0	1680.9	1412.7	1300.5	1278.6	1210.0	1228.7	1259.9
3520.9	47.5°	3499.1	3115.5	2151.9	1553.1	1306.7	1185.1	1166.4	1110.2	1141.4	1175.7
3305.7	50°	3277.7	2891.0	2111.3	1422.1	1206.9	1085.3	1066.6	1029.1	1069.7	1104.0
3159.2	52.5°	3118.6	2635.2	2024.0	1303.6	1119.6	1001.1	994.8	976.1	1013.6	1044.7
3050.0	55°	2981.4	2370.2	1883.7	1200.7	1041.6	929.4	935.6	926.2	957.4	982.4
2984.5	57.5°	2856.7	2139.4	1705.9	1119.6	957.4	867.0	885.7	873.2	888.8	904.4
2915.9	60°	2707.0	1905.5	1493.8	1029.1	857.6	804.6	826.4	792.1	789.0	795.3
2791.2	62.5°	2485.5	1590.5	1272.4	916.9	770.3	736.0	745.4	679.9	630.0	630.0
2607.2	65°	2176.8	1278.6	1066.6	792.1	670.5	642.4	636.2	542.6	474.0	467.8
2407.6	67.5°	1818.2	1051.0	885.7	667.4	558.2	539.5	545.8	477.2	408.5	402.3
2208.0	70°	1481.3	870.1	714.2	533.3	430.4	449.1	477.2	408.5	343.0	333.7
1974.1	72.5°	1203.8	692.3	558.2	408.5	318.1	371.1	405.4	333.7	271.3	265.1
1684.1	75°	929.4	508.3	399.2	277.6	230.8	286.9	318.1	243.3	193.4	184.0
1303.6	77.5°	620.6	315.0	224.5	174.6	137.2	196.5	212.1	127.9	112.3	109.2
948.1	80°	377.4	146.6	96.7	84.2	46.8	71.7	84.2	53.0	59.3	62.4
505.2	82.5°	190.2	40.5	15.6	3.1	0.0	0.0	24.9	12.5	24.9	31.2
137.2	85°	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957126
 CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
6268.4	0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
5507.5	2.5°	5682.1	5813.1	5937.9	6137.5	6343.3	6546.0	6751.8	6951.4	7023.2	7076.2
4755.9	5°	5027.2	5273.6	5560.5	5956.6	6380.7	6817.3	7260.2	7665.6	7849.6	7974.3
4048.0	7.5°	4350.5	4671.7	5083.4	5679.0	6343.3	7038.7	7734.2	8373.5	8669.8	8909.9
3380.6	10°	3680.0	4029.3	4550.1	5229.9	6128.1	7126.1	8086.6	8966.1	9349.7	9652.2
2900.3	12.5°	3090.6	3418.0	3963.8	4715.4	5791.3	7057.5	8289.3	9346.5	9798.7	10138.7
2557.3	15°	2675.8	2906.6	3390.0	4200.8	5392.1	6836.0	8301.8	9527.4	10023.3	10378.8
2413.8	17.5°	2445.0	2523.0	2838.0	3676.9	4949.3	6546.0	8186.4	9589.8	10120.0	10450.5
2286.0	20°	2320.3	2332.7	2420.1	2997.0	4381.7	6274.7	8077.3	9652.2	10210.4	10488.0
2195.5	22.5°	2220.5	2220.5	2242.3	2451.2	3648.8	5950.3	8042.9	9761.3	10335.1	10506.7
2092.6	25°	2130.0	2130.0	2136.3	2192.4	2891.0	5454.5	8021.1	9929.7	10506.7	10553.4
1989.7	27.5°	2036.5	2039.6	2039.6	2070.8	2329.6	4780.9	7927.6	10148.0	10712.5	10615.8
1889.9	30°	1942.9	1949.1	1949.1	1971.0	2061.4	3991.8	7743.6	10410.0	10980.7	10696.9
1790.1	32.5°	1849.3	1855.6	1855.6	1874.3	1939.8	3187.2	7512.8	10650.1	11252.0	10731.2
1693.4	35°	1752.7	1762.0	1755.8	1780.7	1849.3	2535.4	7219.6	10890.3	11545.2	10840.4
1599.9	37.5°	1656.0	1662.2	1659.1	1684.1	1762.0	2189.3	6879.7	11071.1	11944.4	11083.6
1500.1	40°	1559.3	1556.2	1556.2	1584.3	1668.5	2089.5	6452.4	11358.1	12518.2	11510.9
1400.3	42.5°	1459.5	1459.5	1453.3	1484.5	1587.4	2014.6	6043.9	11872.6	13354.0	12190.7
1306.7	45°	1369.1	1366.0	1353.5	1381.6	1509.4	1883.7	5900.4	12833.2	14589.0	13291.6
1213.1	47.5°	1281.8	1278.6	1247.5	1272.4	1415.9	1765.1	6436.9	14405.0	16301.1	14910.2
1138.3	50°	1203.8	1206.9	1147.7	1169.5	1322.3	1674.7	7600.1	16444.5	18574.6	17090.1
1075.9	52.5°	1132.1	1132.1	1054.1	1066.6	1206.9	1593.6	8707.2	18655.6	21574.7	20130.8
1010.4	55°	1060.3	1054.1	966.8	973.0	1091.5	1478.2	8872.5	20813.7	25666.3	24705.8
938.7	57.5°	979.2	966.8	885.7	885.7	985.5	1394.0	7690.5	22472.8	30743.5	31429.6
804.6	60°	879.5	870.1	817.1	801.5	901.3	1468.9	5426.4	22666.2	34018.0	40370.7
639.3	62.5°	751.6	764.1	736.0	714.2	820.2	1525.0	3215.3	21110.0	33225.9	43214.9
495.9	65°	592.5	642.4	636.2	620.6	901.3	1284.9	1899.2	18122.4	30796.5	40919.5
433.5	67.5°	505.2	539.5	530.2	530.2	944.9	976.1	1194.4	14158.6	27453.3	38197.0
361.8	70°	430.4	464.7	430.4	430.4	714.2	592.5	826.4	9886.1	23845.0	35184.4
290.0	72.5°	355.5	389.8	352.4	327.5	570.7	442.8	605.0	6178.0	20420.8	32047.0
205.8	75°	271.3	311.9	283.8	252.6	377.4	330.6	458.4	3589.5	16918.6	27419.0
124.7	77.5°	171.5	224.5	212.1	177.8	277.6	240.1	330.6	2136.3	13054.6	21425.0
74.8	80°	106.0	115.4	118.5	112.3	159.1	162.2	224.5	1216.3	8934.9	14932.0
46.8	82.5°	68.6	68.6	53.0	59.3	78.0	93.6	127.9	458.4	5251.8	9090.8
28.1	85°	49.9	43.7	28.1	28.1	37.4	46.8	49.9	140.3	2130.0	3589.5
12.5	87.5°	24.9	21.8	9.4	12.5	18.7	15.6	12.5	6.2	536.4	1147.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957126
 CATALOG NUMBER: GALN-SB9C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
6268.4	0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
7194.7	2.5°	7257.1	7353.7	7360.0	7360.0	7275.8	7272.6	7101.1	7082.4
8255.0	5°	8545.0	8607.4	8623.0	8591.8	8423.4	8298.7	7965.0	7893.3
9337.2	7.5°	9723.9	9848.6	9848.6	9773.8	9499.3	9243.6	8760.2	8579.4
10232.2	10°	10665.7	10809.2	10778.0	10625.2	10279.0	9926.6	9340.3	9103.3
10774.9	12.5°	11124.2	11270.7	11189.6	11015.0	10678.2	10307.1	9689.6	9421.4
10930.8	15°	11114.8	11074.3	10990.1	10968.2	10806.1	10525.4	9948.4	9655.3
10834.1	17.5°	10718.7	10375.7	10310.2	10528.5	10734.3	10665.7	10173.0	9898.5
10603.3	20°	10091.9	9493.1	9433.9	9851.8	10438.1	10737.4	10381.9	10129.3
10269.6	22.5°	9430.7	8785.2	8648.0	9109.5	9992.1	10759.3	10647.0	10394.4
9901.7	25°	8803.9	8155.2	8018.0	8448.4	9496.2	10721.9	10933.9	10718.7
9549.2	27.5°	8280.0	7653.1	7525.3	7955.6	9019.1	10615.8	11220.8	11068.0
9200.0	30°	7874.5	7294.5	7200.9	7615.7	8607.4	10484.8	11585.7	11501.5
8875.6	32.5°	7637.5	7213.4	7247.7	7587.6	8386.0	10341.4	11935.0	11975.5
8716.6	35°	7871.4	7890.1	8189.5	8329.9	8591.8	10319.5	12409.0	12568.1
8906.8	37.5°	9034.7	9683.3	10304.0	10188.6	9599.1	10572.2	13117.0	13413.2
9736.4	40°	11015.0	12346.7	13354.0	12914.2	11429.8	11345.6	14136.8	14579.6
11208.4	42.5°	13435.1	15692.9	17352.1	16173.2	13790.6	12699.1	15593.2	16157.6
12989.1	45°	15989.2	19818.9	22432.3	19981.1	16307.3	14595.2	17798.0	18240.9
14657.6	47.5°	18680.6	24833.7	28214.2	24203.7	18640.1	16753.3	20804.4	20907.3
16238.7	50°	21624.6	30331.8	34108.5	28423.2	20891.7	19226.4	24478.1	24359.6
18081.8	52.5°	24428.2	35985.9	39877.9	32661.4	22868.9	22295.1	28741.3	28498.0
20601.7	55°	27104.0	41636.8	45681.7	36734.3	24733.9	26349.3	33806.0	32334.0
24234.9	57.5°	30207.1	46717.1	51663.2	40826.0	27341.0	31613.6	39469.4	34560.7
31192.5	60°	34794.6	52489.7	58427.5	46433.3	32299.7	37146.0	41499.6	34136.5
39525.5	62.5°	40651.3	57797.6	63345.6	51928.3	37280.1	38187.6	38508.8	30868.2
37825.9	65°	41789.6	59141.7	63623.2	53397.2	36637.7	32393.2	31438.9	24811.8
33787.2	67.5°	38770.8	56712.3	59743.6	50662.1	32408.8	25033.2	23592.4	18000.7
31136.4	70°	35384.0	52081.1	52982.4	46012.3	28504.3	18412.4	15933.1	11551.4
29321.4	72.5°	31912.9	45903.1	44038.2	39959.0	25052.0	13407.0	11492.2	8211.4
26736.0	75°	27790.1	37779.1	34688.5	33200.9	20742.0	10522.3	8314.3	5666.6
22996.8	77.5°	22254.5	26592.6	25766.1	25734.9	15586.9	7687.4	5548.0	3552.1
17966.4	80°	15699.2	17258.5	16837.5	19382.3	10456.8	5576.1	3340.1	1977.2
12505.7	82.5°	7600.1	9543.0	9795.6	11542.0	5086.5	3280.8	770.3	430.4
4890.0	85°	2975.2	4603.1	3882.7	4381.7	1428.3	913.8	18.7	0.0
804.6	87.5°	333.7	533.3	489.6	386.7	174.6	37.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)